

A REFLECTIVE SPATIAL LIGHT MODULATOR ARRAY

ABSTRACT OF THE INVENTION

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5 A reflective spatial light modulator array is described
incorporating liquid crystal devices, mirrors, a semiconductor
substrate, electrical circuits, and a reflector/absorber layer for
blocking light. The invention overcomes the problem of shielding
light from semiconductor devices, high optical throughput and
contrast, pixel storage capacitance to hold the voltage across the
liquid crystal device and precise control of the liquid crystal
10 device thickness without spacers obscuring the mirrors.